**Pre-Calculus/MTH 111 SYLLABUS**   
Fall 2009



[www.clackamasmiddlecollege.org](http://www.clackamasmiddlecollege.org)

**Instructor Information**

**Instructor**: Ameena Amdahl-Mason

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**Office Hours**: 7:45-9:15am/2:45-3:45pm or by arrangement

**CLASS Information:**

**Course Description**

This course is part I of a pre-calculus sequence that provides an extensive study of functions and their inverses modeled algebraically, numerically and graphically. Specific functions include the exponential, logarithmic, polynomial and power functions. Modeling real world applications are emphasized.

**Course Objectives**

This course will foster an understanding of functions and their properties, including rates of change, short- and long-run behavior, transformations and symmetry, algebra and composition of functions, inverse functions, discrete functions, and fitting functions to data. Particular attention will be paid to the use of functions to model applications and solve problems.

**Credits:** 0.5 Credits per term if taken for high school credit, 1.5 if taken for college credit (student must receive a C or better to receive college credit)

**Class Schedule:**3rd period, every day (M/W/F 12:50-1:45, T/R 12:20-1:30)

**Location:** CMC main campus; math room

**Pre-requisites:** Algebra II or instructor consent

**Textbook**: *Algebra and Trigonometry with Modeling and Visualization*, 3rd ed., Gary Rockswold, Pearson/Addison Wesley.

**Resources**:

Students have access to resources posted on the CMC website under the instructor’s page (<http://www.clackamasmiddlecollege.org/Teachers/AmeenaAmdahlMason/>) as well as on her wikispace (<http://ameena.wikispaces.com>). Included with the resources, students will also find:

* Current weekly grades posted
* Current assignments posted
* Other materials to be included as the course progresses

**Supplies**: Students are to bring a writing utensil every day along with a binder, notebook paper, and completed work from the previous day, handouts given out in class, and a calculator.

**RESPONSIBILITIES and Policies:**

**Student Responsibilities:** As a student of CMC, I expect you to adhere to the policies of the school, as outlined by the Student Handbook (located on the website). You are responsible for the assignments in this class and to communicate any questions, comments or concerns you have to me. Acceptable means of communication include an appointment, e-mail, voicemail or through online discussion forums/blogs. Use of correct grammar and punctuation is required in all written communications.

Plagiarism, cheating and collusion are prohibited at CMC. Students who fail to observe these standards are subject to disciplinary action. Please refer to the CMC Student Handbook for further definitions and consequences of these behaviors, available at: [www.clackamasmiddlecollege.org](http://www.clackamasmiddlecollege.org)

**Attendance:** Attending class daily will impact a student’s opportunity to learn in a positive manner and should result in mastery of skills, benchmarks and standards mentioned above.

**Class participation:** Class participation will result in a greater understanding of the subject matter and will help in skill development. This includes classroom or online discussions, group work, project or other participation requirements that impact student’s opportunity to learn.

**Use of Electronic Devices:** Cell phones, iPods and other relevant or irrelevant electronic devices are not to interfere with the learning environment unless these electronic devices are being used for a class assignment. The instructor reserves the right to take any devices that pose a problem. If a device is taken, then it will be returned in a timely fashion with a discussion about classroom expectations. If problem persists then disciplinary action may be taken.

**Other Policies:** Refer to the CMC Student Handbook

**Instructor Responsibilities:** As your instructor, I commit to communicating openly and frequently with you about this class. I will maintain a professional, safe learning environment adhering to the policies of CMC. You can expect a reply to communication, be it via e-mail, through online discussions, voicemail or in person, within 24-48 business hours.

**Syllabus Changes:** As your instructor, I retain the right to make changes based on the timeline of the class, feedback from learners and/or logistical issues and will inform you as soon as a change is made.

**Grading Policy**:

Classwork (homework and other assignments) = 25 %

Tests = 55 %

Final = 10 %

**Grading Scale:**

|  |  |
| --- | --- |
| **Percentage Attained** | **Grade** |
| 90-100 | A |
| 80-89 | B |
| 70-79 | C |
| 60-69 | D |
| 50-59 | F |

**Course Schedule:**

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| --- | --- | --- |
| **Chapter** | **Sections Covered** | **Tests** |
| One | 1.1, 1.2, 1.3, 1.4, Review Chapter 1 | Chapter 1 Test |
| Two | 2.1, 2.2, 2.3, 2.4, Review Chapter 2 | Chapter 2 Test |
| Three | 3.1, 3.2, 3.3, 3.4, Review Chapter 3 | Chapter 3 Test |
| Four | 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7, Review Chapter 4 | Chapter 4 Test |
| Five | 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, Chapter Five Review | Chapter Five Test |
| Eleven | 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, Chapter 11 Review | Chapter 11 Test |
|  | Review for Final | Final |